

**UNIVERSITY OF COLORADO DENVER
BIOMEDICAL WASTE STREAM SEGREGATION
ANSCHUTZ MEDICAL CAMPUS**

If your biomedical wastes contains any **radioactive** materials or **chemicals**, these waste streams may not be addressed here.

Refer to the Radiation Safety Waste Manual and/or the Hazardous Waste Generators Manual
for instructions on disposal of those wastes or contact Health & Safety for assistance (303-724-0345).

If you are not located on Anschutz Medical Campus, contact the Biosafety Office, 303-724-0235 if you have questions.

<p>UCD contracts with a biomedical waste contractor for transport, final treatment and disposal of biomedical wastes in accordance with applicable state, local and federal regulations. The tubs they provide are for the transport of biomedical wastes and are a shared resource in labs at the Anschutz Medical Campus campus. Empty tubs and red bags are delivered to laboratories by EHS staff. Call 303-724-0111 if you need supplies. Tub must be lined with a red bag. The red bag must be tied shut when full. The lid must be placed on the tub when full. Tub should weigh about 35 to 40 pounds when full. They are picked up by EHS staff when full. Questions regarding biomedical waste and tubs should be directed to 303-724-0111.</p>		
Description of Waste Material	Segregation Protocol	Treatment & Disposal
Human tissues, organs, pathological wastes and all wastes from Creutzfeld-Jakob disease cases or other prion wastes.	Use Yellow biomedical waste tubs.	Must be incinerated by biomedical waste vendor.
Non-human primate tissues or organs	Place ONLY THE TISSUES or ORGANS in a clear carcass bag provided by the CCM for your use. These bags are available in all animal housing rooms and animal facility procedure rooms. Place the bags in the CCM refrigerator or freezer for disposal in the tissue digester. No absorbent pads, no gauze, no gloves, no trash of any kind should be placed inside the carcass bags.	Placed in the appropriate CCM freezer or refrigerator. Disposal in the tissue digester, following CCM Standard Operating Procedures.
All other animal carcasses, tissues or organs	Place ONLY THE CARCASSES, ORGANS, or TISSUES in a clear carcass bag provided by the CCM for your use. These bags are available in all animal housing rooms and animal facility procedure rooms. Return the bags to the CCM refrigerator or freezer for disposal in the tissue digester. No absorbent pads, no gauze, no gloves, no trash of any kind should be placed inside the carcass bags.	Placed in the appropriate CCM freezer or refrigerator. Disposal in the tissue digester, following CCM instructions.

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Description of Waste Material	Segregation Protocol	Treatment & Disposal
Contaminated animal bedding from animals administered hazardous drugs or cytotoxic/chemotherapy agents.	Collect for prescribed time period for the agent per SOP established with CCM staff. Use Yellow tubs for bedding wastes.	Must be incinerated as biomedical wastes.
Cell culture wastes, plates, flasks and items used to manipulate cultures which contain hazardous drugs or cytotoxic / chemotherapy agents.	Liquid (media) wastes must be collected as chemical hazardous wastes Sharps must be placed in sharps containers designated and labeled for cytotoxic agents. Sharps containers and other solid waste will be segregated in Yellow tubs to dispose of this waste stream.	Must be incinerated as biomedical wastes.
Cultures and stocks of infectious agents classified as <u>Risk Group 3 human pathogens</u>, Select Agents, or agricultural pathogens.	Individual researchers must autoclave at the laboratory , in appropriate autoclave bags. Will be segregated and disposed of in Red tubs for secondary, off-site treatment by autoclaving & final disposal by biomedical waste vendor.	Must be autoclaved by the laboratory staff. After autoclaving, segregate by co-mingling with other wastes in Red tubs. This will be followed by off-site treatment (autoclaving) & final disposal by biomedical waste vendor.
Contaminated animal bedding from animals administered infectious agents that present a human or animal health risk.	Carcasses, tissues and organs will be segregated for disposal in tissue digester using clear carcass bags and ABSL freezer or refrigerator, only. These bags are available in all animal housing rooms and animal facility procedure rooms. All other materials will be autoclaved out of the ABSL facility per CCM Standard Operating Procedures.	Must be autoclaved out of the ABSL suite , followed by off-site treatment (autoclaving) & disposal by biomedical waste vendor.

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Description of Waste Material	Segregation Protocol	Treatment & Disposal
Sharps Wastes: needles, scalpels razor blades, lancets, Pasteur pipettes , and microscope slides, if unfixed tissues	Sharps must be placed in rigid, plastic sharps containers. Laboratories must furnish their own sharps containers. The containers are sealed, segregated into and disposed of in Red tubs.	Off-site autoclave disposal by biomedical waste vendor.
LIQUID WASTES Human blood, bodily fluids, other potentially infectious fluids, to include cell culture media, not otherwise contaminated with chemicals or RAM.	LIQUID WASTES may need to be segregated, collected in a leak proof container, and solidified. There can be no standing liquids in the waste tubs. Treat with Isolyzer or ISOSORB or equivalent product to solidify, then dispose of in Red tubs. Sanitary sewer disposal may be appropriate in some cases. Consult with Biosafety Office for sanitary sewer disposal protocols and authorization.	Segregated by the laboratory, collected in a leak proof container, and solidified for off-site treatment (autoclave) and disposal by biomedical waste vendor.
Cell culture solid wastes: plates, flasks and items used to manipulate cultures that are not otherwise contaminated with chemicals or RAM. Cultures and stock vials of RG2 infectious agents ; tissue culture/cell lines derived from human cells; tissue culture/cell lines immortalized with infectious agents (CMV, EBV) etc.	Segregated for disposal in Red tubs.	Off-site autoclave disposal by biomedical waste vendor.

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MUNICIPAL SOLID WASTES THAT SHOULD NOT BE PLACED IN BIOMEDICAL WASTE STREAM

Description of Waste Material	Segregation Protocol	Treatment & Disposal
Uncontaminated laboratory wastes (no contact with biological agents, chemical or RAM)	None required	Municipal Solid Waste (regular trash)
Uncontaminated animal bedding & cages—no infectious agents, hazardous drugs or chemicals.	None required	Follow Standard Operating Procedures for CCM
Uncontaminated lab plasticware, disposable transfer pipettes gloves, plastic pipette tips, plastic trays, plastic or glass serological pipettes, paper towels, cardboard boxes, etc. Paper wrappers from pipets, aluminum foil, etc.	None required	Municipal Solid Waste (regular trash). Uncontaminated lab plasticware which could puncture a plastic bag but which is not infectious , should be collected in a sturdy, sealed cardboard box and picked up by housekeeping for disposal in the trash compactor.
Uncontaminated broken glassware (no contact with biological agents, chemical or RAM)	Picked up by housekeeping for disposal in the trash compactor	Collect in a rigid, well-sealed cardboard box. Do not overload these boxes.